



SeqList(02-11-US).ST25.txt  
SEQUENCE LISTING

<110> Einstein, Neil  
 Lillichan, Scott  
 Lovitt, Corey  
 Parrington, Mark  
 Pedyczak, Artur  
 Radvanyi, Laszlo  
 Singh-Sandhu, Devender  
 Oomen, Raymond P  
 Cao, Shi-Xian

<120> Tumor Antigens BFA4 and BCY1 for Prevention and/or Treatment of Cancer

<130> API-02-11-US

<140> US 10/611,440

<141> 2003-07-01

<150> US 60/394,346

<151> 2002-07-03

<150> US 60/394,503

<151> 2002-07-09

<150> US 60/411,833

<151> 2002-09-18

<150> US 60/445,342

<151> 2003-02-06

<160> 218

<170> PatentIn version 3.2

<210> 1

<211> 3846

<212> DNA

<213> Homo sapiens

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## SeqList (02-11-US) .ST25.txt

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## SeqList(02-11-US).ST25.txt

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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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 20 25 30

Lys Asn Lys Glu Phe Ser Ala Asp Gln Met Ser Glu Asn Thr Asp Gln  
 35 40 45

Ser Asp Ala Ala Glu Leu Asn His Lys Glu Glu His Ser Leu His Val  
 50 55 60

Gln Asp Pro Ser Ser Ser Ser Lys Lys Asp Leu Lys Ser Ala Val Leu  
 65 70 75 80

Ser Glu Lys Ala Gly Phe Asn Tyr Glu Ser Pro Ser Lys Gly Gly Asn  
 85 90 95

Phe Pro Ser Phe Pro His Asp Glu Val Thr Asp Arg Asn Met Leu Ala  
 100 105 110

Phe Ser Phe Pro Ala Ala Gly Gly Val Cys Glu Pro Leu Lys Ser Pro  
 115 120 125

Gln Arg Ala Glu Ala Asp Asp Pro Gln Asp Met Ala Cys Thr Pro Ser  
 130 135 140

Gly Asp Ser Leu Glu Thr Lys Glu Asp Gln Lys Met Ser Pro Lys Ala  
 145 150 155 160

Thr Glu Glu Thr Gly Gln Ala Gln Ser Gly Gln Ala Asn Cys Gln Gly  
 165 170 175

Leu Ser Pro Val Ser Val Ala Ser Lys Asn Pro Gln Val Pro Ser Asp  
 180 185 190

Gly Gly Val Arg Leu Asn Lys Ser Lys Thr Asp Leu Leu Val Asn Asp  
 195 200 205

## SeqList(02-11-US).ST25.txt

Asn Pro Asp Pro Ala Pro Leu Ser Pro Glu Leu Gln Asp Phe Lys Cys  
 210 215 220

Asn Ile Cys Gly Tyr Gly Tyr Tyr Gly Asn Asp Pro Thr Asp Leu Ile  
 225 230 235 240

Lys His Phe Arg Lys Tyr His Leu Gly Leu His Asn Arg Thr Arg Gln  
 245 250 255

Asp Ala Glu Leu Asp Ser Lys Ile Leu Ala Leu His Asn Met Val Gln  
 260 265 270

Phe Ser His Ser Lys Asp Phe Gln Lys Val Asn Arg Ser Val Phe Ser  
 275 280 285

Gly Val Leu Gln Asp Ile Asn Ser Ser Arg Pro Val Leu Leu Asn Gly  
 290 295 300

Thr Tyr Asp Val Gln Val Thr Ser Gly Gly Thr Phe Ile Gly Ile Gly  
 305 310 315 320

Arg Lys Thr Pro Asp Cys Gln Gly Asn Thr Lys Tyr Phe Arg Cys Lys  
 325 330 335

Phe Cys Asn Phe Thr Tyr Met Gly Asn Ser Ser Thr Glu Leu Glu Gln  
 340 345 350

His Phe Leu Gln Thr His Pro Asn Lys Ile Lys Ala Ser Leu Pro Ser  
 355 360 365

Ser Glu Val Ala Lys Pro Ser Glu Lys Asn Ser Asn Lys Ser Ile Pro  
 370 375 380

Ala Leu Gln Ser Ser Asp Ser Gly Asp Leu Gly Lys Trp Gln Asp Lys  
 385 390 395 400

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 405 410 415

Ile Lys Pro Leu Asp Ser Ser Arg Gln Asn Gly Thr Glu Ala Thr Ser  
 420 425 430

Tyr Tyr Trp Cys Lys Phe Cys Ser Phe Ser Cys Glu Ser Ser Ser Ser  
 435 440 445

## SeqList(02-11-US).ST25.txt

Leu Lys Leu Leu Glu His Tyr Gly Lys Gln His Gly Ala Val Gln Ser  
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Ile Asn Gln Asn Asp Leu Ala Lys Ser Ser Glu Gly Glu Thr Met Thr  
 485 490 495

Lys Thr Asp Lys Ser Ser Ser Gly Ala Lys Lys Lys Asp Phe Ser Ser  
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Lys Gly Ala Glu Asp Asn Met Val Thr Ser Tyr Asn Cys Gln Phe Cys  
 515 520 525

Asp Phe Arg Tyr Ser Lys Ser His Gly Pro Asp Val Ile Val Val Gly  
 530 535 540

Pro Leu Leu Arg His Tyr Gln Gln Leu His Asn Ile His Lys Cys Thr  
 545 550 555 560

Ile Lys His Cys Pro Phe Cys Pro Arg Gly Leu Cys Ser Pro Glu Lys  
 565 570 575

His Leu Gly Glu Ile Thr Tyr Pro Phe Ala Cys Arg Lys Ser Asn Cys  
 580 585 590

Ser His Cys Ala Leu Leu Leu Leu His Leu Ser Pro Gly Ala Ala Gly  
 595 600 605

Ser Ser Arg Val Lys His Gln Cys His Gln Cys Ser Phe Thr Thr Pro  
 610 615 620

Asp Val Asp Val Leu Leu Phe His Tyr Glu Ser Val His Glu Ser Gln  
 625 630 635 640

Ala Ser Asp Val Lys Gln Glu Ala Asn His Leu Gln Gly Ser Asp Gly  
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Gln Gln Ser Val Lys Glu Ser Lys Glu His Ser Cys Thr Lys Cys Asp  
 660 665 670

## SeqList(02-11-US).ST25.txt

Phe Ile Thr Gln Val Glu Glu Glu Ile Ser Arg His Tyr Arg Arg Ala  
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His Ser Cys Tyr Lys Cys Arg Gln Cys Ser Phe Thr Ala Ala Asp Thr  
690 695 700

Gln Ser Leu Leu Glu His Phe Asn Thr Val His Cys Gln Glu Gln Asp  
705 710 715 720

Ile Thr Thr Ala Asn Gly Glu Glu Asp Gly His Ala Ile Ser Thr Ile  
725 730 735

Lys Glu Glu Pro Lys Ile Asp Phe Arg Val Tyr Asn Leu Leu Thr Pro  
740 745 750

Asp Ser Lys Met Gly Glu Pro Val Ser Glu Ser Val Val Lys Arg Glu  
755 760 765

Lys Leu Glu Glu Lys Asp Gly Leu Lys Glu Lys Val Trp Thr Glu Ser  
770 775 780

Ser Ser Asp Asp Leu Arg Asn Val Thr Trp Arg Gly Ala Asp Ile Leu  
785 790 795 800

Arg Gly Ser Pro Ser Tyr Thr Gln Ala Ser Leu Gly Leu Leu Thr Pro  
805 810 815

Val Ser Gly Thr Gln Glu Gln Thr Lys Thr Leu Arg Asp Ser Pro Asn  
820 825 830

Val Glu Ala Ala His Leu Ala Arg Pro Ile Tyr Gly Leu Ala Val Glu  
835 840 845

Thr Lys Gly Phe Leu Gln Gly Ala Pro Ala Gly Gly Glu Lys Ser Gly  
850 855 860

Ala Leu Pro Gln Gln Tyr Pro Ala Ser Gly Glu Asn Lys Ser Lys Asp  
865 870 875 880

Glu Ser Gln Ser Leu Leu Arg Arg Arg Arg Gly Ser Gly Val Phe Cys  
885 890 895

Ala Asn Cys Leu Thr Thr Lys Thr Ser Leu Trp Arg Lys Asn Ala Asn  
900 905 910

## SeqList(02-11-US).ST25.txt

Gly Gly Tyr Val Cys Asn Ala Cys Gly Leu Tyr Gln Lys Leu His Ser  
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Ile Arg Arg Arg Thr Arg Lys Arg Leu Asn Pro Glu Ala Leu Gln Ala  
 945 950 955 960

Glu Gln Leu Asn Lys Gln Gln Arg Gly Ser Asn Glu Glu Gln Val Asn  
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Gly Ser Pro Leu Glu Arg Arg Ser Glu Asp His Leu Thr Glu Ser His  
 980 985 990

Gln Arg Glu Ile Pro Leu Pro Ser Leu Ser Lys Tyr Glu Ala Gln Gly  
 995 1000 1005

Ser Leu Thr Lys Ser His Ser Ala Gln Gln Pro Val Leu Val Ser  
 1010 1015 1020

Gln Thr Leu Asp Ile His Lys Arg Met Gln Pro Leu His Ile Gln  
 1025 1030 1035

Ile Lys Ser Pro Gln Glu Ser Thr Gly Asp Pro Gly Asn Ser Ser  
 1040 1045 1050

Ser Val Ser Glu Gly Lys Gly Ser Ser Glu Arg Gly Ser Pro Ile  
 1055 1060 1065

Glu Lys Tyr Met Arg Pro Ala Lys His Pro Asn Tyr Ser Pro Pro  
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Gly Ser Pro Ile Glu Lys Tyr Gln Tyr Pro Leu Phe Gly Leu Pro  
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Phe Val His Asn Asp Phe Gln Ser Glu Ala Asp Trp Leu Arg Phe  
 1100 1105 1110

Trp Ser Lys Tyr Lys Leu Ser Val Pro Gly Asn Pro His Tyr Leu  
 1115 1120 1125



## SeqList(02-11-US).ST25.txt

Ser His Val Pro Gly Leu Pro Asn Pro Cys Gln Asn Tyr Val Pro  
 1130 1135 1140

Tyr Pro Thr Phe Asn Leu Pro Pro His Phe Ser Ala Val Gly Ser  
 1145 1150 1155

Asp Asn Asp Ile Pro Leu Asp Leu Ala Ile Lys His Ser Arg Pro  
 1160 1165 1170

Gly Pro Thr Ala Asn Gly Ala Ser Lys Glu Lys Thr Lys Ala Pro  
 1175 1180 1185

Pro Asn Val Lys Asn Glu Gly Pro Leu Asn Val Val Lys Thr Glu  
 1190 1195 1200

Lys Val Asp Arg Ser Thr Gln Asp Glu Leu Ser Thr Lys Cys Val  
 1205 1210 1215

His Cys Gly Ile Val Phe Leu Asp Glu Val Met Tyr Ala Leu His  
 1220 1225 1230

Met Ser Cys His Gly Asp Ser Gly Pro Phe Gln Cys Ser Ile Cys  
 1235 1240 1245

Gln His Leu Cys Thr Asp Lys Tyr Asp Phe Thr Thr His Ile Gln  
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Pro Lys Glu  
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aagaccaaca cctacatcaa gacaccggtg aggggcgagg aaccagtgtt catggtgaca 180

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## SeqList(02-11-US).ST25.txt

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Cys Lys Ile Lys Ala Leu Arg Ala Lys Thr Asn Thr Tyr Ile Lys Thr
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## SeqList(02-11-US).ST25.txt

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85 90 95

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100 105 110

Arg Val Val Gly Leu Val Val Gly Pro Lys Gly Ala Thr Ile Lys Arg  
115 120 125

Ile Gln Gln Gln Thr Asn Thr Tyr Ile Ile Thr Pro Ser Arg Asp Arg  
130 135 140

Asp Pro Val Phe Glu Ile Thr Gly Ala Pro Gly Asn Val Glu Arg Ala  
145 150 155 160

Arg Glu Glu Ile Glu Thr His Ile Ala Val Arg Thr Gly Lys Ile Leu  
165 170 175

Glu Tyr Asn Asn Glu Asn Asp Phe Leu Ala Gly Ser Pro Asp Ala Ala  
180 185 190

Ile Asp Ser Arg Tyr Ser Asp Ala Trp Arg Val His Gln Pro Gly Cys  
195 200 205

Lys Pro Leu Ser Thr Phe Arg Gln Asn Ser Leu Gly Cys Ile Gly Glu  
210 215 220

Cys Gly Val Asp Ser Gly Phe Glu Ala Pro Arg Leu Gly Glu Gln Gly  
225 230 235 240

Gly Asp Phe Gly Tyr Gly Gly Tyr Leu Phe Pro Gly Tyr Gly Val Gly  
245 250 255

Lys Gln Asp Val Tyr Tyr Gly Val Ala Glu Thr Ser Pro Pro Leu Trp  
260 265 270

Ala Gly Gln Glu Asn Ala Thr Pro Thr Ser Val Leu Phe Ser Ser Ala  
275 280 285

Ser Ser Ser Ser Ser Ser Ala Lys Ala Arg Ala Gly Pro Pro Gly  
290 295 300

## SeqList(02-11-US).ST25.txt

Ala His Arg Ser Pro Ala Thr Ser Ala Gly Pro Glu Leu Ala Gly Leu  
 305 310 315 320

Pro Arg Arg Pro Pro Gly Glu Pro Leu Gln Gly Phe Ser Lys Leu Gly  
 325 330 335

Gly Gly Gly Leu Arg Ser Pro Gly Gly Gly Arg Asp Cys Met Val Cys  
 340 345 350

Phe Glu Ser Glu Val Thr Ala Ala Leu Val Pro Cys Gly His Asn Leu  
 355 360 365

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## SeqList(02-11-US).ST25.txt

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Glu Ala Leu Gln Ala Glu  
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## SeqList(02-11-US).ST25.txt

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Ser Gly Gln Ala Asn Cys Gln Gly Leu

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Ala Asn Cys Gln Gly Leu Ser Pro Val

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Gly Leu Ser Pro Val Ser Val Ala Ser

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Ser Val Ala Ser Lys Asn Pro Gln Val

1 5

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Arg Leu Asn Lys Ser Lys Thr Asp Leu  
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Asn Asp Asn Pro Asp Pro Ala Pro Leu  
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Asp Pro Ala Pro Leu Ser Pro Glu Leu  
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Glu Leu Gln Asp Phe Lys Cys Asn Ile  
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Gly Leu His Asn Arg Thr Arg Gln Asp  
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Glu Leu Asp Ser Lys Ile Leu Ala Leu  
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Lys Ile Leu Ala Leu His Asn Met Val  
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Ala Leu His Asn Met Val Gln Phe Ser  
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Val Leu Leu Asn Gly Thr Tyr Asp Val  
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Gly Leu Asn Pro Glu Leu Asn Asp Lys  
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Gly Ser Val Ile Asn Gln Asn Asp Leu

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&lt;223&gt; CLP-2456

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Ser Val Ile Asn Gln Asn Asp Leu Ala

1 5

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Phe Cys Asp Phe Arg Tyr Ser Lys Ser

1 5

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Ser His Gly Pro Asp Val Ile Val Val

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Gly Leu Cys Ser Pro Glu Lys His Leu  
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Leu Gly Glu Ile Thr Tyr Pro Phe Ala  
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His Cys Ala Leu Leu Leu Leu His Leu  
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&lt;211&gt; 9

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&lt;400&gt; 56

Ala Leu Leu Leu Leu His Leu Ser Pro  
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&lt;211&gt; 9

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Leu Leu Leu Leu His Leu Ser Pro Gly  
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&lt;223&gt; CLP-2466

&lt;400&gt; 58

Leu Leu Leu His Leu Ser Pro Gly Ala  
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&lt;211&gt; 9

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Thr Thr Pro Asp Val Asp Val Leu Leu

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Val Leu Leu Phe His Tyr Glu Ser Val

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Ser Thr Ile Lys Glu Glu Pro Lys Ile  
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Val Thr Trp Arg Gly Ala Asp Ile Leu  
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Ile Leu Arg Gly Ser Pro Ser Tyr Thr  
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Ala Ser Leu Gly Leu Leu Thr Pro Val  
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Gly Leu Leu Thr Pro Val Ser Gly Thr  
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Gly Thr Gln Glu Gln Thr Lys Thr Leu  
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Lys Thr Leu Arg Asp Ser Pro Asn Val  
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His Leu Ala Arg Pro Ile Tyr Gly Leu  
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Pro Ile Tyr Gly Leu Ala Val Glu Thr  
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Leu Ala Val Glu Thr Lys Gly Phe Leu  
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Phe Leu Gln Gly Ala Pro Ala Gly Gly  
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Ala Gly Gly Glu Lys Ser Gly Ala Leu  
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Gly Ala Leu Pro Gln Gln Tyr Pro Ala  
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Ala Leu Pro Gln Gln Tyr Pro Ala Ser  
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Phe Cys Ala Asn Cys Leu Thr Thr Lys  
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Ala Asn Gly Gly Tyr Val Cys Asn Ala  
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Asn Ala Cys Gly Leu Tyr Gln Lys Leu  
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Gly Leu Tyr Gln Lys Leu His Ser Thr  
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Lys Leu His Ser Thr Pro Arg Pro Leu  
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&lt;211&gt; 9

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Arg Leu Asn Pro Glu Ala Leu Gln Ala

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Val Leu Val Ser Gln Thr Leu Asp Ile

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Asp Ile His Lys Arg Met Gln Pro Leu

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Arg Met Gln Pro Leu His Ile Gln Ile

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Tyr Pro Leu Phe Gly Leu Pro Phe Val  
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Gly Leu Pro Phe Val His Asn Asp Phe  
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Phe Val His Asn Asp Phe Gln Ser Glu  
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Ser Val Pro Gly Asn Pro His Tyr Leu  
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His Tyr Leu Ser His Val Pro Gly Leu  
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Tyr Val Pro Tyr Pro Thr Phe Asn Leu  
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Ser Ala Val Gly Ser Asp Asn Asp Ile  
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Lys Asn Glu Gly Pro Leu Asn Val Val  
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Thr Lys Cys Val His Cys Gly Ile Val  
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Cys Val His Cys Gly Ile Val Phe Leu

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Cys Gly Ile Val Phe Leu Asp Glu Val

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Phe Leu Asp Glu Val Met Tyr Ala Leu

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Val Met Tyr Ala Leu His Met Ser Cys

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Phe Gln Cys Ser Ile Cys Gln His Leu  
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&lt;211&gt; 9

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Gly Leu His Arg Asn Asn Ala Gln Val  
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&lt;210&gt; 111

&lt;211&gt; 9

&lt;212&gt; PRT

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&lt;220&gt;

&lt;223&gt; CLP-2477

&lt;400&gt; 111

Lys Met Gly Glu Pro Val Ser Glu Ser  
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&lt;210&gt; 112

&lt;211&gt; 9

&lt;212&gt; PRT

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&lt;223&gt; CLP-2478

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Gly Leu Lys Glu Lys Val Trp Thr Glu  
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Pro Thr Ser Glu His Val Ala Glu Ile  
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Glu Ile Val Gly Arg Gln Cys Lys Ile  
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Lys Ile Lys Ala Leu Arg Ala Lys Thr  
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Lys Ala Leu Arg Ala Lys Thr Asn Thr  
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Ala Leu Arg Ala Lys Thr Asn Thr Tyr  
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Leu Arg Ala Lys Thr Asn Thr Tyr Ile  
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Thr Asn Thr Tyr Ile Lys Thr Pro Val  
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Tyr Ile Lys Thr Pro Val Arg Gly Glu  
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Gly Arg Arg Glu Asp Val Ala Thr Ala  
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Ala Arg Arg Glu Ile Ile Ser Ala Ala  
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Ala Ala Phe Gly Val Ala Pro Ala Leu  
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Pro Ala Leu Pro Gly Gln Val Thr Ile  
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Ala Leu Pro Gly Gln Val Thr Ile Arg  
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Leu Pro Gly Gln Val Thr Ile Arg Val  
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Gly Gln Val Thr Ile Arg Val Arg Val

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Arg Val Arg Val Pro Tyr Arg Val Val

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Arg Val Pro Tyr Arg Val Val Gly Leu

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Val Pro Tyr Arg Val Val Gly Leu Val

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Arg Val Val Gly Leu Val Val Gly Pro

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Leu Val Val Gly Pro Lys Gly Ala Thr  
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Val Val Gly Pro Lys Gly Ala Thr Ile  
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Gln Gln Gln Thr Asn Thr Tyr Ile Ile  
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Gln Gln Thr Asn Thr Tyr Ile Ile Thr  
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Arg Asp Arg Asp Pro Val Phe Glu Ile  
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Glu Ile Thr Gly Ala Pro Gly Asn Val  
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Gly Ala Pro Gly Asn Val Glu Arg Ala  
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Asn Val Glu Arg Ala Arg Glu Glu Ile  
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Glu Glu Ile Glu Thr His Ile Ala Val  
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Ile Glu Thr His Ile Ala Val Arg Thr  
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His Ile Ala Val Arg Thr Gly Lys Ile  
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Ile Ala Val Arg Thr Gly Lys Ile Leu  
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&lt;211&gt; 9

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Lys Ile Leu Glu Tyr Asn Asn Glu Asn  
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&lt;210&gt; 174

&lt;211&gt; 9

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Tyr Asn Asn Glu Asn Asp Phe Leu Ala  
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&lt;211&gt; 9

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Asn Glu Asn Asp Phe Leu Ala Gly Ser  
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&lt;211&gt; 9

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&lt;223&gt; CLP-2766

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Phe Leu Ala Gly Ser Pro Asp Ala Ala  
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&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial

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&lt;223&gt; CLP-2767

&lt;400&gt; 177

Leu Ala Gly Ser Pro Asp Ala Ala Ile  
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&lt;211&gt; 9

&lt;212&gt; PRT

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&lt;223&gt; CLP-2774

&lt;400&gt; 178

Ala Ile Asp Ser Arg Tyr Ser Asp Ala  
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&lt;210&gt; 179

&lt;211&gt; 9

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Ser Arg Tyr Ser Asp Ala Trp Arg Val  
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&lt;211&gt; 9

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Val His Gln Pro Gly Cys Lys Pro Leu  
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Leu Gly Cys Ile Gly Glu Cys Gly Val  
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Cys Gly Val Asp Ser Gly Phe Glu Ala  
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Gly Phe Glu Ala Pro Arg Leu Asp Val  
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Arg Leu Asp Val Tyr Tyr Gly Val Ala  
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Asp Val Tyr Tyr Gly Val Ala Glu Thr  
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Gly Val Ala Glu Thr Ser Pro Pro Leu  
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Ala Glu Thr Ser Pro Pro Leu Trp Ala  
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Ala Gly Gln Glu Asn Ala Thr Pro Thr  
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Gln Glu Asn Ala Thr Pro Thr Ser Val  
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Val Leu Phe Ser Ser Ala Ser Ser Ser  
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Lys Ala Arg Ala Gly Pro Pro Gly Ala  
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Pro Ala Thr Ser Ala Gly Pro Glu Leu  
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Ala Thr Ser Ala Gly Pro Glu Leu Ala  
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Ser Ala Gly Pro Glu Leu Ala Gly Leu  
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Gly Leu Pro Arg Arg Pro Pro Gly Glu

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&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Artificial

&lt;220&gt;

&lt;223&gt; CLP-2887

&lt;400&gt; 198

Glu Pro Leu Gln Gly Phe Ser Lys Leu

1 5

&lt;210&gt; 199

&lt;211&gt; 9

&lt;212&gt; PRT

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&lt;220&gt;

&lt;223&gt; CLP-2892

&lt;400&gt; 199

Phe Ser Lys Leu Gly Gly Gly Gly Leu

1 5

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&lt;211&gt; 9

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&lt;220&gt;

&lt;223&gt; CLP-2894

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Lys Leu Gly Gly Gly Gly Leu Arg Ser

1 5

&lt;210&gt; 201

&lt;211&gt; 9

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Gly Leu Arg Ser Pro Gly Gly Gly Arg  
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&lt;211&gt; 9

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Cys Met Val Cys Phe Glu Ser Glu Val  
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&lt;211&gt; 9

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Met Val Cys Phe Glu Ser Glu Val Thr  
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&lt;210&gt; 204

&lt;211&gt; 9

&lt;212&gt; PRT

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&lt;220&gt;

&lt;223&gt; CLP-2911

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Val Cys Phe Glu Ser Glu Val Thr Ala  
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&lt;211&gt; 9

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Phe Glu Ser Glu Val Thr Ala Ala Leu  
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&lt;211&gt; 9

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&lt;223&gt; CLP-2916

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Glu Val Thr Ala Ala Leu Val Pro Cys  
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&lt;210&gt; 207

&lt;211&gt; 9

&lt;212&gt; PRT

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&lt;220&gt;

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Val Thr Ala Ala Leu Val Pro Cys Gly  
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&lt;211&gt; 9

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&lt;220&gt;

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Ala Leu Val Pro Cys Gly His Asn Leu  
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&lt;211&gt; 9

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&lt;220&gt;

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Val Pro Cys Gly His Asn Leu Phe Cys

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Asn Leu Phe Cys Met Glu Cys Ala Val

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Phe Cys Met Glu Cys Ala Val Arg Ile

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Cys Ala Val Arg Ile Cys Glu Arg Thr

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Arg Ile Cys Glu Arg Thr Asp Pro Glu  
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Arg Thr Asp Pro Glu Cys Pro Val Cys  
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Cys Pro Val Cys His Ile Thr Ala Thr  
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Val Cys His Ile Thr Ala Thr Gln Ala  
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Ile Thr Ala Thr Gln Ala Ile Arg Ile  
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